

Rhys Jacob

List of Publications by Citations

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Version: 2024-04-28

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

26

papers

895

citations

9

h-index

29

g-index

31

ext. papers

1,099

ext. citations

8.6

avg, IF

4.52

L-index

#	Paper	IF	Citations
26	Review on concentrating solar power plants and new developments in high temperature thermal energy storage technologies. <i>Renewable and Sustainable Energy Reviews</i> , 2016 , 53, 1411-1432	16.2	523
25	Review on shell materials used in the encapsulation of phase change materials for high temperature thermal energy storage. <i>Renewable and Sustainable Energy Reviews</i> , 2015 , 48, 79-87	16.2	163
24	Embodied energy and cost of high temperature thermal energy storage systems for use with concentrated solar power plants. <i>Applied Energy</i> , 2016 , 180, 586-597	10.7	49
23	A critical review of eutectic salt property prediction for latent heat energy storage systems. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 70, 936-944	16.2	41
22	Using renewables coupled with thermal energy storage to reduce natural gas consumption in higher temperature commercial/industrial applications. <i>Renewable Energy</i> , 2019 , 131, 1035-1046	8.1	21
21	Design of sensible and latent heat thermal energy storage systems for concentrated solar power plants: Thermal performance analysis. <i>Renewable Energy</i> , 2020 , 151, 1286-1297	8.1	19
20	Characterisation of promising phase change materials for high temperature thermal energy storage. <i>Journal of Energy Storage</i> , 2019 , 24, 100801	7.8	17
19	Effect of inner coatings on the stability of chloride-based phase change materials encapsulated in geopolymers. <i>Solar Energy Materials and Solar Cells</i> , 2018 , 174, 271-276	6.4	10
18	Geopolymer encapsulation of a chloride salt phase change material for high temperature thermal energy storage 2016 ,		9
17	Techno-economic analysis on the design of sensible and latent heat thermal energy storage systems for concentrated solar power plants. <i>Renewable Energy</i> , 2021 , 178, 443-455	8.1	8
16	Capital cost expenditure of high temperature latent and sensible thermal energy storage systems 2017 ,		7
15	Investigation into the behaviour of aluminium and steel under melt/freeze cyclic conditions. <i>Journal of Energy Storage</i> , 2018 , 17, 249-260	7.8	6
14	Maximising renewable gas export opportunities at wastewater treatment plants through the integration of alternate energy generation and storage options. <i>Science of the Total Environment</i> , 2020 , 742, 140580	10.2	5
13	Novel geopolymer for use as a sensible storage option in high temperature thermal energy storage systems 2020 ,		3
12	Assessment of exergy delivery of thermal energy storage systems for CSP plants: Cascade PCMs, graphite-PCMs and two-tank sensible heat storage systems. <i>Sustainable Energy Technologies and Assessments</i> , 2020 , 42, 100823	4.7	3
11	Experimental phase diagram study of the binary KCl-Na ₂ CO ₃ system. <i>Thermochimica Acta</i> , 2021 , 695, 178811	2.9	2
10	Technoeconomic Impacts of Storage System Design on the Viability of Concentrated Solar Power Plants. <i>Journal of Energy Storage</i> , 2021 , 34, 101987	7.8	2

9	Economic Studies on High-Temperature Phase Change Storage Systems 2018 , 297-318		2
8	A new methodology for designing and assessing latent heat thermal energy storage systems 2020 ,		1
7	Corrosion interface formation in thermally cycled stainless steel 316 with high-temperature phase change material. <i>Solar Energy Materials and Solar Cells</i> , 2021 , 225, 111062	6.4	1
6	A numerical model for thermal energy storage systems utilising encapsulated phase change materials 2016 ,		1
5	Encapsulation of High-Temperature Phase Change Materials 2018 , 231-274		1
4	Chemical degradation in Thermally Cycled Stainless Steel 316 with High-Temperature Phase Change Material. <i>Solar Energy Materials and Solar Cells</i> , 2021 , 230, 111216	6.4	1
3	Valorisation of waste materials for high temperature thermal storage: a review. <i>Journal of Energy Storage</i> , 2021 , 47, 103645	7.8	0
2	A novel, low-cost and robust method for determining molten salt density at high temperatures. <i>Journal of Energy Storage</i> , 2021 , 41, 102935	7.8	0
1	Thermal stability of a waste-based alkali-activated material for thermal energy storage. <i>Chemical Thermodynamics and Thermal Analysis</i> , 2021 , 3-4, 100014		0